TEJUS
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TEST REPORT		
Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. D K Nagaraja, Bangalore.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	PCC	
Sample Location	At Site/Plant		Date of Sampling	14/03/2018	
			Date of Testing	14/03/2018	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	521	521	5.21	94.79	90-100
10.0	3234	3755	37.55	62.45	40-85
4.75	5682	9437	94.37	5.63	0-10
Pan	563	10000			-

Remarks : ~~Satisfactory~~ / Not Satisfactory

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Project Division
Yelahanka Zone
Bangalore

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Test report on Compressive strength of concrete cubes

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14/03/2018	21/03/2018	7 days	8.158	22500	308	13.69	13.90
2	14/03/2018	21/03/2018	7 days	8.168	22500	312	13.87	
3	14/03/2018	21/03/2018	7 days	8.172	22500	318	14.13	

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TEST REPORT					
Clients	Bruhath Bangalore Mahanagara Palike				
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. D K Nagaraja, Bangalore.				
Total Weight in gm:	3000				
SIEVE ANALYSIS					
Type of Material	40 mm down size			**Proposed Use**	DRAIN
Sample Location	At Site/Plant			**Date of Sampling**	18/02/2018
				Date of Testing	18/02/2018
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size**
80.00mm	**0**	**0**	**0.00**	100.00	100
63.00mm	**0**	**0**	**0.00**	100.00	-
40.00mm	**98**	**98**	**3.27**	96.73	95-100
20.00mm	**1322**	**1420**	**47.33**	52.67	30-70
10.00mm	**977**	**2397**	**79.90**	20.10	10-35
4.75mm	**482**	**2879**	**95.97**	4.03	0-5
Pan	**121**	**3000**	**100.00**	0.00	
Remarks :	Satisfactory / Not Satisfactory				

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	18/02/2018
Period of Soaking	24 hours	Date of Testing	18/02/2018

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	668	658	650	
B	Weight of oven - dry sample gm.	660	650	642	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1696	1688	1683	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.672	2.653	2.653	**2.659**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.212	1.231	1.246	**1.230**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/ M**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampli**	18/02/2018	
			Date of Testing	18/02/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	**0**	**0**	**0**	**100.00**	**100**
4.75 mm	**212**	**212**	**7.07**	**92.93**	**90 - 100**
2.36 mm	**305**	**517**	**17.23**	**82.77**	**75 - 100**
1.18 mm	**422**	**939**	**31.30**	**68.70**	**55 - 90**
0.600 mm	**488**	**1427**	**47.57**	**52.43**	**35 -59**
0.300 mm	**721**	**2148**	**71.60**	**28.40**	**8-30**
0.150 mm	**644**	**2792**	**93.07**	**6.93**	**0 - 10**
Pan	**208**	**3000**			**-**

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike.
Consultant	TEJUS CONSULTANTS.
Contractor	Sri. D K Nagaraja, Bangalore.
Sample ID	Cement
Date of Sample Tested	18/02/2018
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	348 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Test report on Compressive strength of Solid Block

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Cross sectional area	60000 mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	3
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2
1	15/03/2018	15/03/2018	60000	212.60	3.54	3.50
2	15/03/2018	15/03/2018	60000	213.00	3.55	
3	15/03/2018	15/03/2018	60000	214.00	3.57	

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Test report on Compressive strength of Solid Block

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Cross sectional area	60000 mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	3
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2
1	15/03/2018	15/03/2018	60000	215.00	3.58	3.50
2	15/03/2018	15/03/2018	60000	214.20	3.57	
3	15/03/2018	15/03/2018	60000	215.20	3.59	

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